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Amendments to the Claims:

1-8. (Canceled)

- 9. (Previously amended) A method of treating a rigid die insert to reduce crack propagation and raise yield stress therein, the rigid die insert comprising a nickel-base superalloy having a plurality of gamma-prime particles, each of the gamma-prime particles having a particle size, the method comprising the steps of:
 - a) providing the rigid die insert;
 - b) dissolving gamma-prime particles having a first particle size, by:
 - i) heat treating the rigid die insert in an inert atmosphere at a first predetermined temperature for a first predetermined hold time, the first predetermined temperature being a sub-solvus temperature of the nickel-base alloy; and
 - ii) immediately quenching the rigid die insert from the first predetermined temperature to room temperature in a room temperature bath; and
- c) growing additional gamma-prime particles in the rigid die insert, wherein each of the additional gamma-prime particles has a second particle size, the second particle size being smaller than the first particle size,

wherein the particle size of each of the plurality of gamma-prime particles is refined to produce a uniform size distribution of the gamma-prime particles, thereby reducing crack propagation and raising the yield stress of the rigid die insert.

10. (Canceled)

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- 11. (Currently amended) The method of Claim 9, wherein the step of heat treating the rigid die insert at a first predetermined temperature further including the step of comprises forced-air cooling the rigid die insert immediately after the step of heat treating the rigid die insert at a first predetermined temperature and immediately prior to quenching the rigid die insert.
- 12. (Previously amended) The method of Claim 9, wherein the inert atmosphere is an argon atmosphere.
- 13. (Previously amended) The method of Claim 9, wherein the step of quenching the rigid die insert to room temperature in a room temperature bath comprises quenching the rigid die insert to room temperature in a room temperature oil bath.
- 14. (Previously amended) The method of Claim 9, wherein the step of growing additional gamma-prime particles in the rigid die insert comprises aging the rigid die insert in an inert atmosphere at a second predetermined temperature for a second predetermined hold time, wherein the second predetermined temperature is less than the first predetermined temperature.
- 15. (Original) The method of Claim 14, wherein the inert atmosphere is an argon atmosphere.
- 16. (Currently amended) A method of refining the particle size of gammaprime particles in a Rene 95 superalloy, the method comprising the steps of:
 - a) providing a Rene 95 superalloy;
- b) heating the Rene 95 superalloy in an inert atmosphere at a first temperature, the first temperature being a temperature below a solvus temperature of the Rene 95 superalloy;

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c) immediately quenching the Rene 95 superalloy from the first predetermined temperature to room temperature in a bath and dissolving gamma-prime particles[[,]] in the Rene-95 superalloy, wherein each of the gamma-prime particles has a first particle size; and

aging the Rene 95 superalloy after quenching in an inert atmosphere at a second predetermined temperature for a second predetermined hold time, wherein the second predetermined temperature is less than the first predetermined temperature, and growing additional gamma-prime particles, wherein each of the additional gamma-prime particles has a second particle size that is less that the first particle size, and wherein a uniform size distribution of gamma-prime particles is created.

- 17. (Previously amended) The method of Claim 16, wherein the step of heating the Rene 95 superalloy in an inert atmosphere at a first temperature comprises heating the Rene 95 superalloy to about 2050°F for about two hours.
- 18. (Previously amended) The method of Claim 16, wherein the step of quenching the Rene 95 superalloy to room temperature in a bath comprises quenching the Rene 95 superalloy in a room temperature oil bath.
- 19. (Previously amended) The method of Claim 16, wherein the step of aging the Rene 95 superalloy in an inert atmosphere at a second predetermined temperature for a second predetermined hold time comprises heating the Rene 95 up to about 1400°F for about 16 hours.
- 20. (Original) The method of Claim 16, wherein the inert atmosphere is an argon atmosphere.
- 21. (Previously amended) A method of treating a rigid die insert to reduce crack propagation and raise yield stress, the rigid die insert comprising a Rene 95



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superalloy having a plurality of gamma-prime particles, each of the gamma-prime particles having a particle size, the method comprising the steps of:

- a) providing the rigid die insert;
- b) heating the rigid die insert in an inert atmosphere at a first temperature for a first predetermined hold time, the first temperature being a temperature below a solvus temperature of the Rene 95 superalloy;
- c) immediately forced-air cooling the rigid die insert from the first temperature;
- d) quenching the rigid die insert at room temperature in a bath immediately following the step of forced-air cooling and dissolving gamma-prime particles in the Rene-95 superalloy, wherein each of the gamma-prime particles has a first particle size; and
- e) aging the rigid die insert in an inert atmosphere at a second predetermined temperature for a second predetermined hold time, wherein the second predetermined temperature is less than the first predetermined temperature,

wherein the particle size of each of the plurality of gamma-prime particles is refined and a uniform size distribution of gamma-prime particles is created, thereby reducing crack propagation and raising the yield stress of the rigid die insert.

- 22. (Original) The method of Claim 21, wherein the step of quenching the rigid die insert in a room temperature bath comprises quenching the rigid die insert in a room temperature oil bath.
- 23. (Original) The method of Claim 21, wherein the step of heating the rigid die insert in an inert atmosphere to a first temperature for a first predetermined hold time comprises heating the rigid die insert to about 2050°F for about two hours.



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- 24. (Previously amended) The method of Claim 21, wherein the step of aging the rigid die insert in an inert atmosphere at a second predetermined temperature for a second predetermined hold time comprises heating the rigid die insert up to about 1400°F for about 16 hours.
- 25. (Original) The method of Claim 21, wherein the inert atmosphere is an argon atmosphere.

